

Release notes for ENDF/B Development n-036_Kr_080
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=3631, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=3631, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      240 TO      323
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=3631, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=3631, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      240
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3631, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      325
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      453
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      485
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      517
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      539
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 548

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 561

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 571

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 593

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 613

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 632

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 651

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 56
SECTION 3/ 56 NOT IN DIRECTORY RECORD NUMBER 669

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 57 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 57 | RECORD NUMBER | 686 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 58 | RECORD NUMBER | 703 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 59 | RECORD NUMBER | 720 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 60 | RECORD NUMBER | 736 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 61 | RECORD NUMBER | 752 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 62 | RECORD NUMBER | 768 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 63 | RECORD NUMBER | 783 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 64 | RECORD NUMBER | 798 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 65 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 65 | RECORD NUMBER | 812 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 66 | RECORD NUMBER | 826 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 67 | RECORD NUMBER | 840 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 68 | RECORD NUMBER | 853 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 69 | RECORD NUMBER | 866 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 70 | RECORD NUMBER | 879 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 71 | RECORD NUMBER | 891 |
| SECTION 3/ 71 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 72 | RECORD NUMBER | 903 |
| SECTION 3/ 72 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 73 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 73 | RECORD NUMBER | 915 |
| SECTION 3/ 73 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 74 | RECORD NUMBER | 926 |
| SECTION 3/ 74 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 75 | RECORD NUMBER | 937 |
| SECTION 3/ 75 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 76 | RECORD NUMBER | 947 |
| SECTION 3/ 76 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 77 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 77 | RECORD NUMBER | 957 |
| SECTION 3/ 77 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 78 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 78 | RECORD NUMBER | 967 |
| SECTION 3/ 78 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 79 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 79 | RECORD NUMBER | 976 |
| SECTION 3/ 79 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT= 91 | RECORD NUMBER | 985 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=102 (0): Directory (b)

- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=102 | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 994 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=103 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=103 | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 1020 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=104 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 1034 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 1046 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=106 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=106 | |
| SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 1055 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=107 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=107 | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1066 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 3, MT=111 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 3, MT=111 | |
| SECTION 3/111 NOT IN DIRECTORY | RECORD NUMBER 1082 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 2 (0): Directory (b)
- | | |
|--|--------------------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 2 | |
| SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 1094 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 16 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 16 | RECORD NUMBER | 1322 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 22 | RECORD NUMBER | 1333 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 28 | RECORD NUMBER | 1344 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 51 | RECORD NUMBER | 1355 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 52 | RECORD NUMBER | 1380 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 53 | RECORD NUMBER | 1403 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 54 | RECORD NUMBER | 1426 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 55 | RECORD NUMBER | 1449 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 56 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 56 | RECORD NUMBER | 1472 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 57 | RECORD NUMBER | 1495 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 58 | RECORD NUMBER | 1518 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 59 | RECORD NUMBER | 1541 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 60 | RECORD NUMBER | 1564 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 61 | RECORD NUMBER | 1587 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 62 | RECORD NUMBER | 1610 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 63 | RECORD NUMBER | 1633 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 64 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 64 | RECORD NUMBER | 1656 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 65 | RECORD NUMBER | 1679 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 66 | RECORD NUMBER | 1702 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 67 | RECORD NUMBER | 1725 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 68 | RECORD NUMBER | 1748 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 69 | RECORD NUMBER | 1771 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 70 | RECORD NUMBER | 1794 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 71 | RECORD NUMBER | 1817 |
| SECTION 4/ 71 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 72 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 72 | RECORD NUMBER | 1840 |
| SECTION 4/ 72 NOT IN DIRECTORY | | |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 73 | RECORD NUMBER | 1863 |
| SECTION 4/ 73 NOT IN DIRECTORY | | |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 74 | RECORD NUMBER | 1886 |
| SECTION 4/ 74 NOT IN DIRECTORY | | |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 75 | RECORD NUMBER | 1909 |
| SECTION 4/ 75 NOT IN DIRECTORY | | |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 76 | RECORD NUMBER | 1932 |
| SECTION 4/ 76 NOT IN DIRECTORY | | |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 77 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 77 | RECORD NUMBER | 1955 |
| SECTION 4/ 77 NOT IN DIRECTORY | | |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 78 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 78 | RECORD NUMBER | 1978 |
| SECTION 4/ 78 NOT IN DIRECTORY | | |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 79 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 79 | RECORD NUMBER | 2000 |
| SECTION 4/ 79 NOT IN DIRECTORY | | |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 4, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 4, MT= 91
SECTION 4/ 91 NOT IN DIRECTORY RECORD NUMBER 2022

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 5, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 5, MT= 16
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 2045

81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 5, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 2090

82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 2248

83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3631, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=3631, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2332

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.79997E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.79997E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04

2. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80005E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80005E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04

3. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80004E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80004E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

4. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80009E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80009E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

5. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80006E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80006E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

6. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80018E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80018E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

7. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80010E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80010E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

8. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80011E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80011E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

9. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.79989E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.79989E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
... [1 more lines]
```

10. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80028E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80028E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

11. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80025E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80025E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

12. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.79991E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.79991E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

13. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80012E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80012E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

14. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80003E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80003E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

15. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.79981E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.79981E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

16. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80013E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80013E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

17. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.80021E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.80021E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04
```

18. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05 / STRENGTH FUNCTION 5.79993E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```

FILE 2
SECTION 151
ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 5.79997E-05
STRENGTH FUNCTION 5.79993E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04

```

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

```

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]

```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=1000.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.22%

4. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.11%

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 31: n[multiplicity:'2'] + Kr79 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11482470.43708801 eV vs -1.15341e7 eV!

2. Calculated and tabulated Q values disagree.
reaction label 32: n + H1 + Br79 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9074346.252365112 eV vs -9120630. eV!

3. Calculated and tabulated Q values disagree.
reaction label 33: Kr81 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7911466.147338867 eV vs 7881390. eV!

4. Calculated and tabulated Q values disagree.
reaction label 34: n + He4 + Se76 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5026755.052322388 eV vs -5059680. eV!

5. Energy range of data set does not match cross section range
reaction label 34: n + He4 + Se76 / Product: n / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5123550.0 -> 20000000.0) vs (5123560.0 -> 20000000.0)

6. Calculated and tabulated Q values disagree.
reaction label 35: H1[multiplicity:'2'] + Se79 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8442911.8956604 eV vs -8487580. eV!

7. Calculated and tabulated Q values disagree.
reaction label 36: H1 + Br80_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1182070.362197876 eV vs -1223530. eV!

8. Calculated and tabulated Q values disagree.
reaction label 37: H2 + Br79_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6849780.151428223 eV vs -6810510. eV!

9. Calculated and tabulated Q values disagree.
reaction label 38: H3 + Br78_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11280076.51904297 eV vs -1.13135e7 eV!

10. Calculated and tabulated Q values disagree.
reaction label 39: He3 + Se78_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7687700.302581787 eV vs -7721330. eV!

11. Calculated and tabulated Q values disagree.
reaction label 40: He4 + Se77_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 2392105.755355835 eV vs 2363310. eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided